

CLAIMS

What is claimed is:

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1. A echo canceler, comprising:

an echo canceler module capable of configuration as one of
an acoustic echo canceler and a hybrid echo canceler; and

a control register adapted to configure said echo canceler
module as said one of said acoustic echo canceler and said hybrid echo
canceler.

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2. The echo canceler according to claim 1, wherein:

said control register is adapted to configure a span length of
said echo canceler module.

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3. The echo canceler according to claim 2, wherein:

said span length is adapted to be operably reconfigurable.

4. The echo canceler according to claim 1, wherein:

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said control register is adapted to configure a step size
relating to adaptation of said echo canceler module.

5. The echo canceler according to claim 4, wherein:

said step size is adapted to be operably reconfigurable.

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6. The echo canceler according to claim 1, wherein:

said control register is adapted to configure an ability to
update tap information relating to said echo canceler module.

7. The echo canceler according to claim 6, wherein:
said ability to update tap information is adapted to be
operably reconfigurable.

5 8. The echo canceler according to claim 1, wherein:
said control register is adapted to select one of a plurality of
possible adaptation modes of said echo canceler module.

10 9. The echo canceler according to claim 8, wherein:
said selection is operably reconfigurable.

15 10. The echo canceler according to claim 1, wherein:
said control register is adapted to select between sub-band
center clipping and full-band center clipping with respect to said echo
canceler module.

20 11. The echo canceler according to claim 10, wherein:
said selection is operably reconfigurable.

25 12. The echo canceler according to claim 1, wherein:
said control register is adapted to select between sub-band
echo cancellation and full-band echo cancellation.

 13. The echo canceler according to claim 12, wherein:
said selection is operably reconfigurable.

14. The echo canceler according to claim 1, wherein:
said echo canceler module is adapted to configurably
receive an input signal from two of:

5 a microphone,
a telephone line in, and
handset in.

10 15. A method of configuring an echo canceler module as
either an acoustic echo canceler or as a hybrid echo canceler, said
method comprising:

configuring said echo canceler module as one of said
acoustic echo canceler and said hybrid echo canceler;

operating said echo canceler module in an operation mode
utilizing said echo canceler module as configured; and

15 reconfiguring said echo canceler module as the other of said
acoustic echo canceler and said hybrid echo canceler.

20 16. The method of configuring an echo canceler module as
either an acoustic echo canceler or as a hybrid echo canceler according
to claim 15, wherein said reconfiguring comprises:

changing a span length of said echo canceler module.

25 17. The method of configuring an echo canceler module as
either an acoustic echo canceler or as a hybrid echo canceler according
to claim 15, wherein said reconfiguring comprises:

changing an adaptation speed of said echo canceler
module.

18. The method of configuring an echo canceler module as either an acoustic echo canceler or as a hybrid echo canceler according to claim 15, wherein said reconfiguring comprises:

5 changing an enablement status of a tap update ability of said echo canceler module.

19. The method of configuring an echo canceler module as either an acoustic echo canceler or as a hybrid echo canceler according to claim 15, wherein said reconfiguring comprises:

10 changing an adaptation mode of said echo canceler module.

20. The method of configuring an echo canceler module as either an acoustic echo canceler or as a hybrid echo canceler according to claim 15, wherein said reconfiguring comprises:

15 selecting between sub-band center clipping or full-band center clipping with respect to said echo canceler module.

21. The method of configuring an echo canceler module as either an acoustic echo canceler or as a hybrid echo canceler according to claim 15, wherein said reconfiguring comprises:

20 selecting between sub-band echo cancellation or full-band echo cancellation with respect to said echo canceler module.

22. Apparatus for configuring an echo canceler module as either an acoustic echo canceler or as a hybrid echo canceler, comprising:

means for configuring said echo canceler module as one of said acoustic echo canceler and said hybrid echo canceler;

means for operating said echo canceler module in an operation mode utilizing said echo canceler module as configured; and

means for reconfiguring said echo canceler module as the other of said acoustic echo canceler and said hybrid echo canceler.

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